



An Equal Access Telemedicine Provider
Cooperation Before Competition

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Executive Committee

Keith Mesmer, Chairman
Linda Roth, Vice- Chairman
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Rural Members

Cheyenne County Hospital
Colorado Plains Medical Center
East Morgan County Hospital
Haxtun Hospital District
Hays Medical Center
Keefe Memorial Hospital
Kit Carson Memorial Hospital
Lincoln Community Hospital
Melissa Memorial Hospital
Memorial Health Center
Powers Medical Center
Rawlins County Hospital
Sterling Regional MedCenter

Urban Members

HealthONE
Penrose-St. Francis Healthcare System
Poudre Valley Hospital
Provenant St. Anthony Hospital Central
Saint Joseph Hospital
Saint Mary Corwin

Staff

Kay Thiel, Operations Manager
Bryan Nation, Telemedicine Manager
Lee Green, Clinical Coordinator
Ryan Wiest, Information Specialist
Jennifer White, LAN Administrator

*High Plains Rural Health
Network is a not-for-profit
agency sponsored by funding
from the Office of Rural Health
Policy, an agency of
the United States Government,
and by continuing support of
members' dues.*

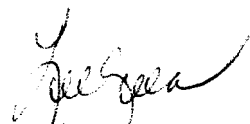
December 16, 1996

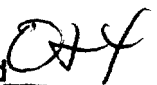
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Dear Sir/Madame,

Enclosed you will find information about our telemedicine network pertinent to **CC Docket No. 96-45**. Should you require more information or need clarification regarding this information, please don't hesitate to contact Bryan Nation or myself at the address at the bottom of the page.

Thank you.


Lee Green
Clinical Coordinator



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Questions to Address:

1. Name of project:

High Plains Rural Health Network

2. Please list each of the project's sites:

Name of Site:	State in which it is located:
Haxtun Hospital District	Haxtun, CO
Melissa Memorial Hospital	Holyoke, CO
Sterling Regional MedCenter	Sterling, CO
Rawlins County Hospital	Atwood, KS
Cheyenne County Hospital	St. Francis, KS
Memorial Health Center	Sidney, Ne
Kit Carson County Memorial Hospital	Burlington, Co

** Continued on attached page

Please answer the following questions for each of your sites.
Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,00 in your state, and approximately how far are you from its boundary?

**Please refer to attached page

City:_____ Distance from city boundary:_____

4. Name of the project's telecommunications service provider:

US West, PTI, Southwestern Bell, Phillips County Telephone Co., Haxtun Telephone Co., WilTel, AT&T

5. Level of telecommunications service the project is currently using: (For example, voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent)

T-1 lines that are daisy-chained

6. Charges for telecommunications service:

Is there a monthly charge? No ☐ Yes ☒

If yes, how much is the charge? \$21,721.62

Is there a usage-based charge? No ☐ Yes ☒

If yes, how much is the charge? Refer to attached chart

Is there a distance component (such as a per-mile fee) of the charge? No ☐ Yes ☒

If yes, how much is the charge? Refer to attached chart

Was there an installation fee? No ☐ Yes ☒

If yes, how much was the charge? Varies from \$600-1500/site

Is the charge the regular tarrified rate, or is there a discount from the telecommunications provider? Tarrified ☒ Discount ☐

If there is a discount, how much is it? _____

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Interactive video: mental health, medical services, education, administrative conferencing

Store and forward medical imaging
Teleradiology between some sites

2. Project sites, continued.....

Colorado Plains Medical Center
East Morgan County Hospital
Keefe Memorial Hospital
Yuma District Hospital
Wray Community Hospital
Vail Valley Medical Center
McKie Wellness Center
North Colorado Medical Center
Poudre Valley Hospital
St. Anthony Central Hospital
Plains Medical Center
Presbyterian/St. Luke's Hospital
Estes Park Medical Center

Fort Morgan, CO
Brush, CO
Cheyenne Wells, CO
Yuma, CO
Wray, CO
Vail, CO
Loveland, CO
Greeley, CO
Fort Collins, CO
Denver, CO
Limon, CO
Denver, CO
Estes Park, CO

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would the be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

No. Less bandwidth would adversely impact the project: by reducing the quality of audio and video transmission, increasing the time it takes to transmit data, reducing the number of sites that could simultaneously participate in a conference, by preventing the transmission of data and videoconferencing simultaneously (due to increased transmission time).

9. What would the implications of having a greater level of bandwidth be?

* Shorter transmission times

* Improved audio and video quality- these are extremely important in healthcare applications

* Voice services could be added

* Data (e.g. patient records) could be sent with videoconferencing

* ACR recommendations for radiologic films could be observed

10. Do you have e-mail? No ☐ Yes ☒ At some sites- refer to attached page

11. Do you have Internet access? No ☐ Yes ☒ Refer to attached page

If yes, do you incur long-distance charges by using it?

No ☐ Yes ☐ ** Refer to attached page

Please estimate your number of hours of Internet use per month:

In the High Plains Rural Health Network office- about 90 hours

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

Literature searches

Technology updates

General information

HPRHN has a web page that provides information about it projects and members. Member hospitals can use this vehicle to post job openings and for physician recruitment, as well as to promote their facilities and local programs.

**** attached page**

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

Rural Hospitals and Clinics		
Rural cities	Distance from 50,000 city boundary	Completed / functional
Cheyenne Wells, CO.	125 miles	X
Burlington, CO.	135 miles	X
Limon, CO.	65 miles	end of January
Estes Park, CO.	20 miles	end of January
Haxtun, CO.	105 miles	X
Sterling, CO.	75 miles	X
Holyoke, CO.	120 miles	X
Wray Clinic	125 miles	end of January
Wray, CO.	125 miles	end of January
Brush, CO.	55 miles	X
Yuma, CO.	105 miles	end of January
Sidney, NE.	100 miles	end of January
Atwood, KS.	285 miles	X
St. Francis, KS.	145 miles	X

6. Charges for telecommunications service: In the Telecommunications Chart.

- Is there a usage-based charge? Yes, the usage is only on the out of state sites that dial-in to Colorado. The state of Kansas supports ISDN (PRI & BRI) through out all rural areas by back hauling the service to a central location. The price of this service is slightly less than DS 1 prices in the state of Colorado. ISDN PRI service with Southwestern Bell Monthly recurring is \$454.00/site with a \$.04/min/channel usage fee plus a longdistance fee of \$.06/min/channel. Colorado currently does not support switch services in rural area.

- Is there a distance component (such as a per-mile fee) of the charge? Yes, refer to attached chart. The telephones companies don't charge you by the way the crow flies (point-to-point), but in the way their infrastructure is routed through the state.

The out of state locals (Atwood, KS., St. Francis, KS. and Sidney, NE.) are being re-engineered because of changes in infrastructure.

10. Do you have e-mail? Yes, some sites do have Internet access for e-mail. Sorry, with the amount of time to turn this report in, we couldn't get all this information.

Charges for telecommunication services:

Telecommunication Chart

Site to Site	M / Recuring	As the crow flies	Circuit type	Service carriers	Installation
Cheyenne Wells - Burlington	\$1,138.11	32 miles	DS 1	PTI - PTI	\$606.00
Burlington - Limon	\$1,777.26	72 miles	DS 1	PTI - US West	\$616.50
Limon - Denver Gateway (ICC pop)	\$2,094.60	80 miles	DS 1	US West - Wiltel - US West	\$826.50
Estes Park- Ft. Collins	\$926.50	25 miles	DS 1	US West - US West	\$626.50
Ft. Collins - Denver Gateway (ICC pop)	\$1,305.00	55 miles	DS 1	US West - US West	\$626.50
Haxtun - Sterling	\$924.61	29 miles	DS 1	Haxtun Phone - US West	\$797.55
Sterling - Ft. Morgan Hub	\$1,031.45	39 miles	DS 1	US West - US West	\$626.50
Holyoke - Ft. Morgan Hub	\$2,127.20	80 miles	DS 1	Phillips Phone - US West	\$700.00
Ft. Morgan - Ft. Morgan Hub	\$96.00	1.5 miles	LATA	US West - US West	\$1,483.75
W Clinic - Wray	\$125.00	1 mile	LATA	PTI - PTI	\$200.00
Wray - Yuma	\$1,309.00	25 miles	DS 1	PTI - PTI	\$606.00
Yuma - Brush	\$1,330.46	47 miles	DS 1	PTI - US West	\$616.50
Brush - Ft. Morgan Hub	\$526.50	10 miles	DS 1	US West - US West	\$1,427.25
Loveland - Greeley	\$733.20	20 miles	DS 1	US West - US West	\$626.50
G Clinic - Greeley	\$125.00	0.25 miles	LATA	US West - US West	\$200.00
Greeley - Ft. Morgan Hub	\$1,206.36	50 miles	DS 1	US West - US West	\$626.50
St. Anthony - Denver Hub (1(800)video-on)	\$200.00	7 miles	DS 1	US West - US West	\$626.50
Vail - Denver Hub (1(800)video-on)	\$1,658.75	72 miles	DS 1	US West - US West	\$626.50
Presbyterian St. L - Denver Hub (1(800)video-on)	\$245.00	8 miles	DS 1	US West - US West	\$626.50
UofCHSC - Denver Hub (ICC pop)	\$320.68	5 miles	DS 1	US West - US West	\$626.50
MCC - Ft. Morgan Hub	\$300.00	3 miles	DS 1	US West - US West	\$626.50
Denver Gateway (ICC pop) - Ft. Morgan Hub	\$1,500.02	73 miles	DS 1	US West - US West	\$626.50
Denver Gateway (ICC pop) - Denver Hub (1(800))	\$360.46	1 mile	DS 1	US West - US West	\$626.50
Denver Gateway (ICC pop) - Denver Hub (1(800))	\$360.46	1 mile	DS 1	US West - US West	\$626.50
Installation Total					\$16,224.55
Monthly Recurring	\$21,721.62				
Yearly Recurring	\$260,659.44				